



Gritzner

**Lettering machine
for the cyphering and lettering
of drawings**



The Lettering Machine was developed especially for the cyphering and lettering of drawings and for the printing of parts lists. This includes printing in arrows and symbols (diameter and surface sections, tolerance data, etc.)

It is as practical for design and drawing offices as it is for planning organisations in architecture and building.

The machine is supplied with a special spacer guide bar which when fitted with the appropriate scale plate can be attached to all makes of drafting machines, whether they be track type or vertical parallelogram machines. In the latter case, as the Gritzner only weighs 990 grammes, the drafting machine can easily be counterbalanced.

It is not necessary however to have a drafting machine, as the Lettering Machine can be used quite independent of a drafting head, i.e. It can be used in conjunction with a parallel motion unit or on a desk top.

The Gritzner Special Ink is produced exclusively for the Lettering Machine ink pad. When the complete drawing is passed through a reproducing medium, an excellent contrast photocopy is produced.

Models are available in two type sizes:

- a) 3.5 mm type height or
- b) 2.0 mm type height

The basic shaft and building models are fitted with 2 figure keyboards:

- a) Type height 3.5 mm
figures 3.5 and 2.5 mm
- b) Type height 2.0 mm
figures 2.0 and 1.6 mm

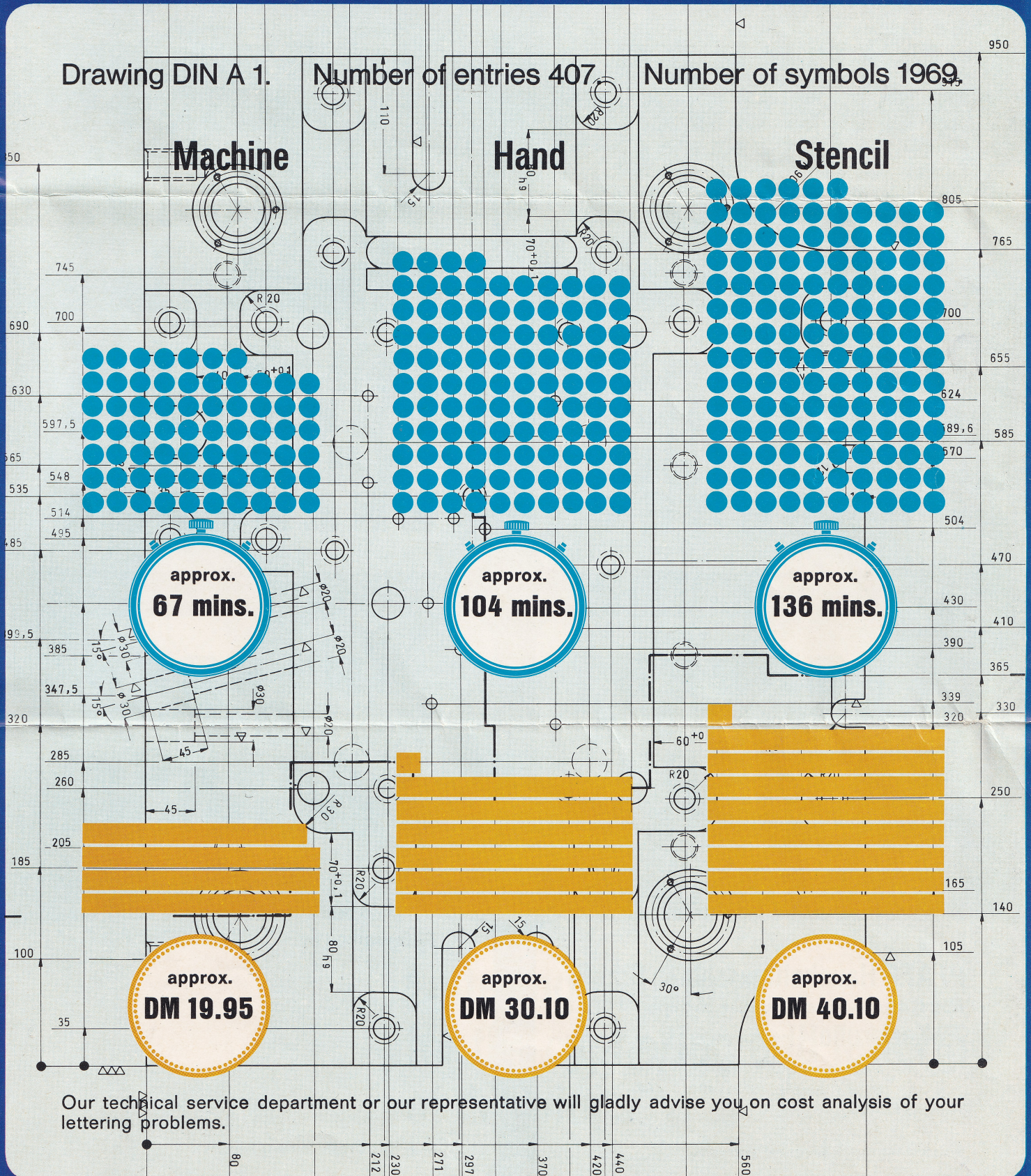
The standard bore model incorporates large letters, 11 small matched letters and one figure keyboard (3.5 and 2.0 mm).

The electrical and alphabet models are fitted with both large and small letters and one figure keyboard (3.5 and 2.0 mm).

The machines can be supplied with special symbols on request.

This page shows a system comparison of drawing lettering in the form of a REFA certificate January, 1971.

A comparative study was made for the production of a typical machine tool drawing produced by the Gritzner Machine, by hand and by stencil in respect of costs. The calculated values are taken from a REFA appraisal designed to quantify the economic value of the Lettering Machine, and carried out by the REFA Institute, Darmstadt.



EB Standard Bore

D	E	F	G	A	B	C
d	e	f	g	+	-	±
H	K	N	P	J	R	S
h	k	n	p	j	r	s
I	L	M	O	T	U	Z
1	2	3	4	ø	▽	..
~	V	W	Y	Q	9	.
▶	5	6	7	8	,	X

EW Basic Shaft

D	E	F	G	A	B	C
1	2	3	4	+	-	±
H	K	N	P	J	R	S
h	5	6	7	8	9	0
I	L	M	O	T	U	Z
1	2	3	4	ø	▽	:
~	V	W	Y	Q	9	.
▶	5	6	7	8	,	X

BW Building

D	E	F	G	A	B	C
1	2	3	4	+	-	c
H	K	N	P	J	R	S
h	5	6	7	8	9	0
I	L	M	O	T	U	Z
1	2	3	4	ø	▽	:
□	V	W	Y	Q	9	.
•	5	6	7	8	,	X

Alphabet machine

D	E	F	G	A	B	C
d	e	f	g	a	b	c
H	K	N	P	J	R	S
h	k	n	p	j	r	s
I	U	M	Q	L	O	Z
i	u	m	q	l	o	z
V	W	X	Y	2	4	6
v	w	x	y	3	5	7

Electrical circuit drawings

▶	◀	□	⏏	V	+	-
1	2	3	4	5	6	7
⊙	L	K	⏏	⏏	=	A
⊗	l	k	⏏	⏏	4	5
⊕	~	>	<	⏏	6	7
⊖	◀	>	<	⏏	8	9
-	◀	•	⏏	⏏	x	9
1	2	3	4	5	6	7

EL Electrical

D	E	F	G	A	B	C
d	e	f	g	a	b	c
H	K	N	P	I	R	S
h	k	n	p	i	r	s
T	L	M	V	W	U	Z
0	1	2	3	4	5	6
7	8	9	0	1	2	3
4	5	6	7	8	9	0

Cyrillic 3 mm

Δ	Φ	В	Г	А	Б	Ц
(	)	δ	г	а	б	ц
X	K	H	П	M	P	C
x	к	h	п	м	р	с
И	Л	Я	О	Т	У	Э
1	2	3	4	5	6	7
Й	Ы	Е	Ю	Щ	Ч	Ь
▶	5	6	7	8	9	0

US type

I	2	3	4	5	6	7
A	B	C	D	E	F	G
8	9	0	/	+	-	±
H	I	J	K	L	M	N
=	/	"	▼	#	(	)
0	P	Q	R	S	T	U
▶	/	•	~	▲	*	%
:	V	W	X	Y	Z	@

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Subject to alteration in design and dimensions.

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